

### ABSTRACT OF THE DISCLOSURE

A single sideband mixer for radio frequency signals is integrated on a uniform semiconductor substrate in a space-saving manner. The inventive single sideband mixer comprises two double-sideband mixers which are switched with identical first signals and with phase quadrature second signals in order to form a product signal from the two signals. The single sideband mixer also comprises an adder for superimposing the two product signals to form an output signal with a sideband. An amplifier is connected in an input circuit to each mixer in order to generate the first signal, and the amplifiers have inputs which are connected to the same signal source via a forked line. The signal source of the amplifiers can be a pre-amplifier or can be an input of the single sideband mixer directly.

2025 RELEASE UNDER E.O. 14176